

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/083187 A1

(51) International Patent Classification⁷: **E03B 3/16**
(21) International Application Number:
PCT/KR2005/000531

(22) International Filing Date: 25 February 2005 (25.02.2005)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2004-0013290 27 February 2004 (27.02.2004) KR
10-2005-0013626 18 February 2005 (18.02.2005) KR

(71) Applicant (for all designated States except US): **TWO AN WATER RESOURCE DEVELOPMENT CO., LTD.**
[KR/KR]; 88 Neukhyeon-ri Chowol-myeon, Gwangju-si,
Gyeonggi-do, Gwangju 464-61 (KR).

(72) Inventor: **AHN, Geun Mook**; 313-606 Sangnokmaeul
Apartment, Jeongja-dong 121, Bundang-gu, Seong-
nam-shi, Gyeonggi-do 463-786 (KR).

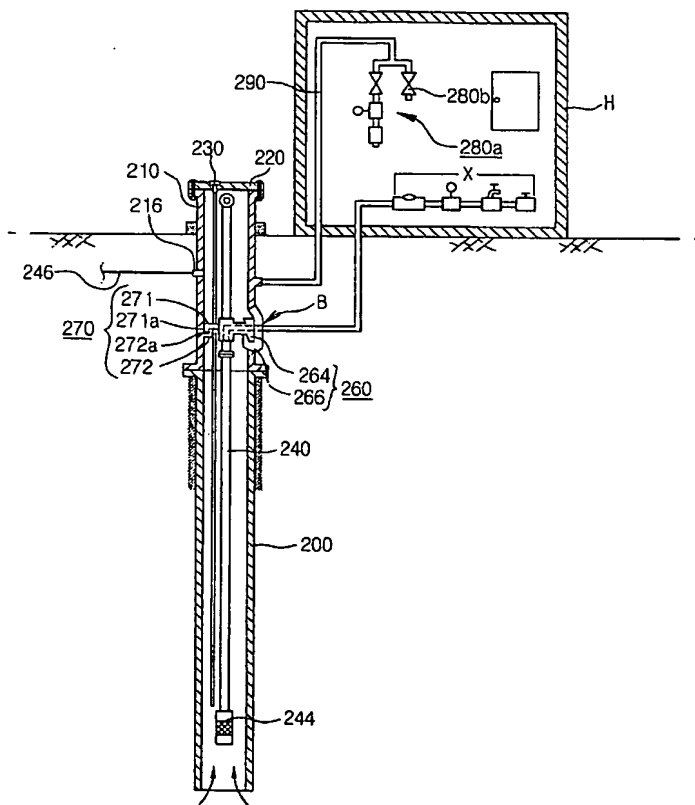
(74) Agent: **KIM, Young Hwa**; 824-29 Yoksamdong, Kang-
namgu, Seoul 135-080 (KR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: APPARATUS FOR PREVENTING POLLUTION OF SUBTERRANEAN WATER



(57) Abstract: Disclosed herein is an apparatus for preventing pollution of a groundwater borehole, which increase water-tightness. The apparatus for preventing pollution of a groundwater borehole has a structure that both sides of an underwater motor pump supported by a first intake pipe having a groundwater borehole for discharging groundwater to the outside are all supported inside a second intake pipe connected with the first intake pipe. The apparatus always maintains balance of the motor pump inside the intake pipes, thereby preventing displacement occurring by supporting only a side of the motor pump like the prior arts, and preventing water leakage and providing watertight efficiency by maintaining the close contact efficiency of an induction pipe connector mounted inside the second intake pipe.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.